

MAGERY

NALYSIS



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VIA RECORDS COPY

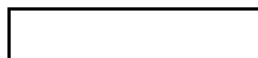
DUSHAMBE ASTRONOMICAL OBSERVATORY

DUSHAMBE, USSR

DECLASS REVIEW by NIMA/DOD

GROUP 1  
Excluded from automatic  
downgrading and declassification

CIA/PIR2520/67



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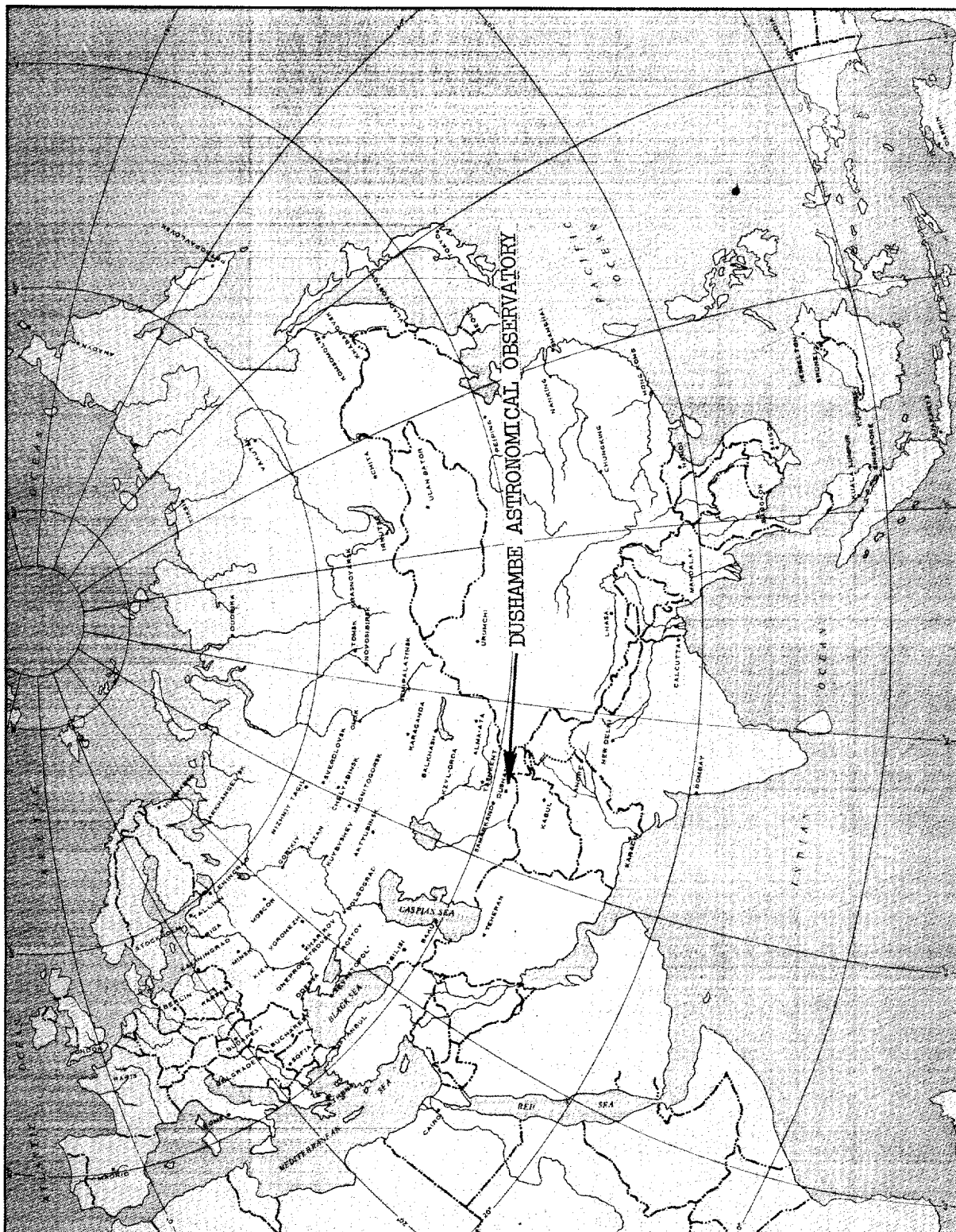
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FIR 75100  
FIGURE 1



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CHEMICAL AND SCIENTIFIC SECTION  
INTELLIGENCE BRANCH, IAS

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# DUSHAMBE ASTRONOMICAL OBSERVATORY DUSHAMBE, USSR

The Dushambe Astronomical Observatory (38 29N - 68 43E) is located 7.5 nm southwest of Dushambe, USSR and 2 nm south of the Gissar Airfield (Figures 1 and 2).

The observatory has facilities for optical and radioastronomical observations. Figures 3 through 7 show the chronological development of this installation, and Figures 8 and 9 are a perspective sketch and a line drawing respectively based on photography [REDACTED]

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The following annotations are keyed to Figure 9:

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- 1-4 Probable radio telescope support buildings
- 5-10 Antenna system with coupling buildings
- 11 Control building
- 12-13 Instrumentation buildings
- 14 Instrumentation support building
- 15 Small optical telescope
- 16-21 Instrumentation buildings
- 22 Support building
- 23-24 Large optical telescopes
- 25-30 Support buildings
- 31 Sentry post

## LEVEL OF ACTIVITY

The construction of this observatory started prior to [REDACTED] Photography at that time showed the two large buildings in the southeastern section of the installation to be under construction. Analysis of [REDACTED] coverage indicated that construction in the eastern section of the installation had progressed at a rapid rate. By [REDACTED] the towers and security fencing had been completed and the main control building, the instrumentation buildings and the optical telescopes were under construction. Photography of [REDACTED] showed construction of the observatory complete except for the two optical telescopes in the northern section. By [REDACTED] only one of these still remained incomplete.

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The configuration of the antenna system is not characteristic of a communication facility nor of previously observed radiotelescopes. The associated optical facilities would indicate that it is for astronomical purposes. Possibly the antenna system is of a new design or configuration,

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or it is still under construction and the towers may possibly be for the support of a non-rigid type, suspended parabolic antenna to be installed in the future.

All measurements have been made by the NPIC Technical Intelligence Division and are considered to be accurate within  $\pm 5$  feet for the buildings and  $\pm 10$  feet for the heights.

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REFERENCES

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PHOTOGRAPHY



MAPS AND CHARTS

General Locator Map, USSR (Unclassified)

ACIC, U.S. Air Target Chart, Series 200, Sheet 0336-7HL, 2nd Edition,  
May 1964, Scale 1:200,000

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REQUIREMENT

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CIA/IAS PROJECT

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FIGURE 3

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DUSHAMBE ASTRONOMICAL OBSERVATORY  
DUSHAMBE, USSR  
38 29N - 68 41E

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DUSHAMBE ASTRONOMICAL OBSERVATORY  
DUSHAMBE, USSR  
38 29N - 68 41E

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FIGURE 5



DUSHAMBE ASTRONOMICAL OBSERVATORY  
DUSHAMBE, USSR  
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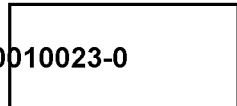
BUILDING DIMENSIONS AND ROOF COVER

ITEM	DIMENSIONS			AREA (Sq. Ft.)
	Height	Length	Width	
1				
2				
3				
4				
5				
6				
7				
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29				
30				
31				

\* This building has a dome with a diameter of approximately 15 feet. This is an average value based on TID measurements and determined by the CIA/IAS analyst.

NOTE: The height of the towers in the antenna system are  +5 feet and is an average value based on TID measurements and determined by the CIA/IAS analyst.

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